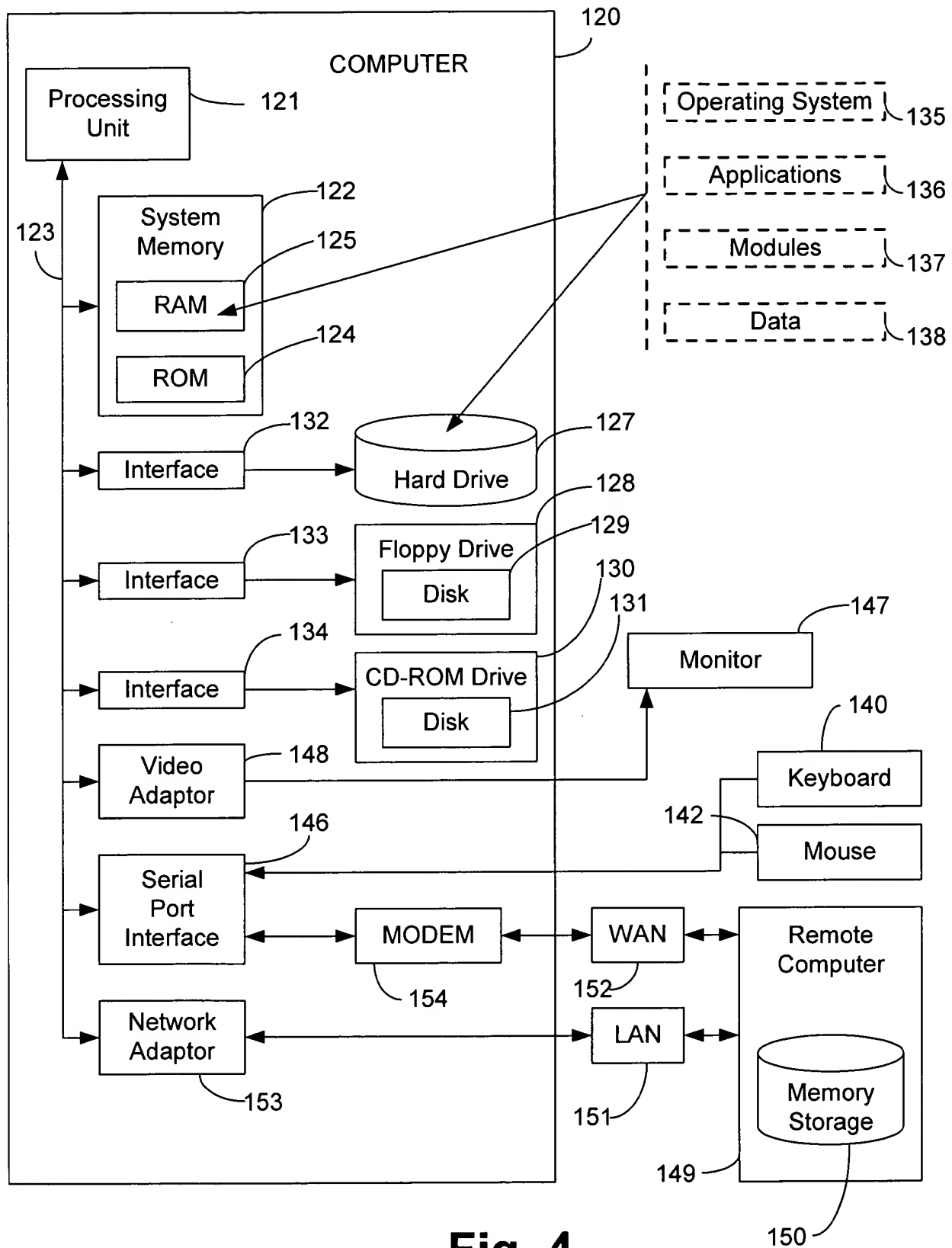
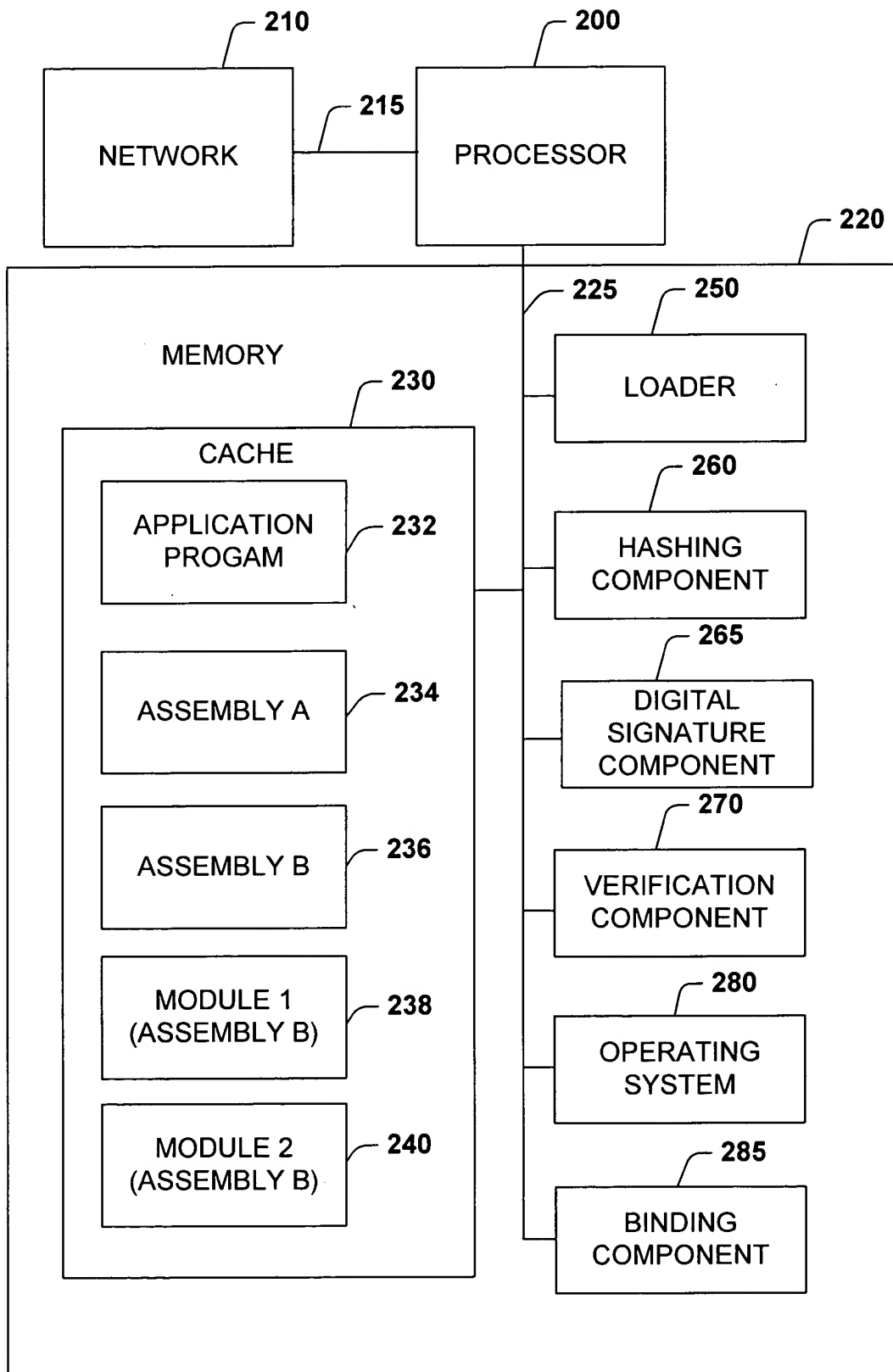


**Fig. 2**





**Fig. 4**



**Fig. 5**

```

graph TD
    300[PROVIDING AN ASSEMBLY HAVING AT LEAST ONE MODULE] --> 310[PROVIDING A TOP ASSEMBLY INCLUDING IDENTITY INFORMATION INCLUDING A PUBLIC KEY AND STORING THE PUBLIC KEY IN A STORAGE MEDIUM]
    310 --> 320[PROVIDING A HASH OF THE TOP ASSEMBLY, ENCRYPTING THE HASH WITH A PRIVATE KEY MATCHING THE PUBLIC KEY AND ATTACHING THE VALUE TO THE END OF THE FILE]
    320 --> 330[READING IN THE PUBLIC KEY AND DECODING THE ENCRYPTED HASH AND COMPARING THE DECODED HASH VALUE WITH AN ACTUAL HASH VALUE OF THE TOP ASSEMBLY]
    330 --> 340{HAS THE CONTENTS OF THE ASSEMBLY CHANGED ?}
    340 -- YES --> 345[ABORT]
    340 -- NO --> 350[CHECK PUBLIC KEY IN MANIFEST WITH PUBLIC KEY STORED IN THE STORAGE MEDIUM]
    350 --> 360{IS THE PUBLISHER THE SAME ?}
    360 -- NO --> 365[ABORT]
    360 -- YES --> 370[CHECK MODULES AND EXECUTE]

```

**Fig. 6**

**Fig. 6**

```

graph TD
    400[PROVIDING AN ASSEMBLY REFERENCING AT LEAST ONE OTHER ASSEMBLY] --> 410[PROVIDING THE REFERENCED ASSEMBLY WITH IDENTITY INFORMATION INCLUDING A PUBLIC KEY]
    410 --> 420[PROVIDING A HASH OF THE REFERENCED ASSEMBLY, ENCRYPTING THE HASH WITH A PRIVATE KEY MATCHING THE PUBLIC KEY AND STORING THE ENCRYPTED HASH AT THE END OF THE REFERENCED ASSEMBLY]
    420 --> 430[PROVIDING THE ASSEMBLY WITH A DEPENDENCY INFORMATION INCLUDING A LIST OF ALL THE REFERENCED ASSEMBLIES AND A PUBLIC KEY TOKEN OF THE CORRESPONDING PUBLIC KEY OF EACH REFERENCED ASSEMBLY]
    430 --> 440[READING IN THE PUBLIC KEY OF THE REFERENCED ASSEMBLY AND DECODING THE ENCRYPTED HASH AT THE END OF THE FILE WITH THE PUBLIC KEY AND COMPARING THE DECODED ENCRYPTED HASH WITH AN ACTUAL HASH]
    440 --> 450{HAS THE CONTENTS OF THE REFERENCED ASSEMBLY CHANGED?}
    450 -- YES --> 455[ABORT]
    450 -- NO --> 460[READ IN PUBLIC KEY TOKEN FROM REFERENCING ASSEMBLY AND COMPARE WITH PUBLIC KEY IN REFERENCED ASSEMBLY]
    460 --> 470{IS THE PUBLISHER THE SAME?}
    470 -- NO --> 475[ABORT]
    470 -- YES --> 480[CHECK SUBASSEMBLIES OF REFERENCED ASSEMBLY AND EXECUTE]

```

**Fig. 7**

**Fig. 7**







```

BOOL SharedNameTokenFromAssembly(
    // [in] valid path to the PE file for the Assembly
    LPCWSTR          szFilePath,
    // [out] strong name token
    BYTE             **ppbSharedNameToken,
    ULONG            *pcbSharedNameToken)

```

**Fig. 10a**

```

BOOL SharedNameTokenFromPublicKey(
    // [in] public key blob
    BYTE             *pbPublicKeyBlob,
    ULONG            cbPublicKeyBlob)
    // [out] strong name token
    BYTE             **ppbSharedNameToken,
    ULONG            *pcbSharedNameToken)

```

**Fig. 10b**

```

BOOL SharedNameSignatureVerification(
    // [in] valid path to the PE file for the Assembly
    LPCWSTR          szFilePath)

```

**Fig. 10c**

00000000 00000000 00000000 00000000 00000000 00000000 00000000 00000000